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Noted in the NID File	
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Date 8 A, or	<u>_</u>
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Water Shut-Off Test	П
Gas-Oil Ratio Test	口
Well Log Filed	Q

Entered in NID File Entered On S R Sheet Location Map Pinned Card isdexed	Checked by Chief Copy N I D to Field Office Approval Letter Disapproval Letter	
Date Well Completed DATA: OWN IA OWN OS PA	Location Inspected Bond released State of Foo Land	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Form OGCC-1	STATE OF THAT
and of a	OIL AND GAS CONSERVATION COMMISSION NOTICE OF INTENTION TO DRILL
No N	· · · · · · · · · · · · · · · · · · ·

19 56
In compliance with Rule C-4, notice is haraby given that to
the work of drilling Well No. , which is located to the from (1)
TIME OF DEC. 44 PMD 4 PM VSM VSM VSM
(#) (Meridian) (Field or Unit)
Uintah
(county), on or about 1st day of July
LAND: Fee and Patented () Name of Cymer of Tabana . White Eagle
State ()
Lease No. Address Tulsa, Oklahoma
Public Domain Lease No. U-04891
Is location a regular or exception to spacing rule? Exception Has a surety bond be
filed? Yes With whom? USGS Area in drilling unit No
(State or Federal) Area in drilling unit No
(State or Federal) Elevation of ground above sea level is 7117 grd. ft. All depth measurements taken from
pop of marry programs
(Derrick Floor, Rotary Table or Kelley Bushing) which is 10' ft. above ground.
Type of tools to be used Cable & Rotary
Type of tools to be used Cable & Rotary Proposed drilling depth 3000 ft. Objective formati
is Navajo ss
DEADACTED GAGETTO
PROPOSED CASING PROGRAM Size of Casing Weight Fer Grade and Type Argust
Inches A.P.T. Foot
10-3/4" 36# Welded 150 of Surface 150: Surface 150:
AFFIDAVIT
hereby certify under the penalty of perjury, that the information contained and statements erein made are to the best of my knowledge and bolished and statements
erein made are to the best of my knowledge and believe, true, correct and complete.
pproved for unorthodox location
ate July 5 19 56 R. Van Sandt Will Com and Com Sandt
Drilling Superintendent
Mervin J. Full of Position
H. F. SMART 1tle COMMISSIONER Tulere, California (Company or Operator)
191e COMMISSIONER Address (Company or Operator)
Noted a Tanada and a second and
Note: Location is an exception to the rule of 5001 in view of tremendous topographic
MSTRUCTIONS differences and to ruggedness of terraine (Alluvial boulders, etc) (On advice of Robert E. Covington, Geological Consultant, Cadwell & Covington, Vern
Complete this form in duplicate and mail both copies to the Oil and Gas Conservation, Commission, Room 105, Capitol Building, Salt Lake City 14, Utah.
Commission, Room 105, Capitol Building, Salt Lake City 14, Utah.
. A plat or map must be attached to this form showing the location of all leases, property
lines, drilling and producing wells within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules,
Unimited to the community of the contraction of the

Any information required by this form that cannot be furnished at the time said form is submitted must be forwarded to the commission as soon as available.

Use back of form for remarks.



TOWNSHIP 2 N RANGE I W USM COUNTY UINTER	STATE Utah
REMARKS: Tulton + Assoc - Farmout from White Eagle Oil Co.	COMPANY

CALDWELL AND COVINGTON OIL AND URANIUM PROPERTIES VERNAL, UTAH

ROBERT E. COVINGTON CRAIG CALDWELL

July 2, 1956

Re: Mervin J. Fulton et al Whiterocks Area Uintah County, Utah

State of Utah Oil and Gas Conservation Commission State Capital Salt Lake City, Utah

Gentlemen:

On June 29, Mr. Mervin J. Fulton and associates signed a Notice of Intention to Drill, this well to be located 1100 Feet from the North line and 1980 feet from the East line of Section 24, Township 2 North, Range 1 West, U.S.M., Uintah County, Utah. This location was made on the basis of the fact that it was impossible to locate the well exactly in the center of the 10 acres because of the nature of the surrounding topography and because the geology necessitated locating the well at the point given.

We are enclosing a 4-island township plat showing the ownership of acreage within a 5,000 foot radius of the No. 1 Mervin J. Fulton and associates well which we propose to drill in the Whiterocks Area. I trust this will be satisfactory for your purposes. Thank you for your cooperation.

Very truly yours,

Robert E. Covington, Geologist

CALDWELL & COVINGTON

REC: jj

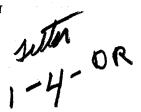
cc - Mervin J. Fulton

Enclosure

CALDWELL AND COVINGTON OIL AND URANIUM PROPERTIES VERNAL, UTAH

ROBERT E. COVINGTON CRAIG CALDWELL

July 3, 1956



Re: Mervin J. Fulton &
Associates Well
Whiterocks Area
Uintah County, Utah

State of Utah Oil and Gas Conservation Division State Capital Salt Lake City, Utah

Gentlemen:

The reason why the Fulton & Associates No.1 well could not be located in the center of the 40 acres (which would have put the location in the center of the Northwest quarter of the Northeast quarter) is the fact that the topography is such that the location would have been on the top of about 150 feet of boulders and gravels.

From a geologic point of view this would have put the location too far north to have hit the objective sand which is the Navajo formation. The Navajo sand is dipping Southeast at about 74 degrees. Moving the location northward would have meant that we would have gone from the Tertiary formation into the Triassics and would be missing the Navajo entirely.

I trust that this information will satisfy your requirements regarding the location of this well.

Very truly yours,

Robert E. Covington, Geologist

CALDWELL & COVINGTON

REC:jj VIA AIR MAIL

R. Van Sandt c/o Caldwell & Covington Oil and Uranium Properties Vernal, Utah

Dear Sirt

This is to acknowledge receipt of your notice of intention to drill Well No. 1, which is to be located 1100 feet from the north line and 1980 feet from the east line of Section 24, Township 2 North, Range 1 West, Usil, Uintah County, Utch.

Please be advised that insofar as this office is consermed approval to drill said well on said unorthodox location is hereby granted under Rule C+3 (c), General Rules and Ragulations, and Rules of Practice and Procedure, Oil and Gas Conservation Commission, State of Utah.

Yours very truly.

CIECH B. VRIGHT

CEF: 00

ec: Don Russell, Diet. Eng. USGS, Federal Bldg. Salt Lake City, Utah

> Mervin J. Fulton & Associates Tulare, California

CALDWELL AND COVINGTON OIL AND URANIUM PROPERTIES VERNAL, UTAH

ROBERT E COVINGTON CRAIG CALDWELL October 8, 1956

Re: U-04891 Uintah County, Utah Whiterocks Area No. 1 Fulton Well

State of Utah Room 140 State Capitol Building Oil & Gas Conservation Commission Salt Lake City, Utah

Gentlemen:

We would like to notify you regarding the progress of the No. 1 Whiterocks well located in Section 24, Township 2 North-Range 1 West.

Due to the press of time and bad weather in this rugged country we were unable to close our traverse until last week. Because of an instrument error on the original traverse an erreneous location and elevation was made for this well.

The true legal description for this well is as follows:

Township 2-North Range 1 West U.S.M.

Section 24 NW4-SE4-NE4 (1880 feet from the North line and 1040 feet from the East line).

The corrected elevation is 7338.3 D.B. This well has been drilled to a total depth of 1230 feet. We have been shut down since September 27th but intend to resume operations next week.

If you need a copy of the re-survey on this well I will obtain one from the original map which I sent to Mr. Don Russell, District Engineer U.S.G.S.

This corrected location moved the well from NW4-Ne4 to the NW4-SE4-NE4.

Very truly yours,

Robert E. Covington, Geologist

CALDWELL & COVINGTON

REC/dh

POOR GOPY

Form	9-331a
(Feb	1951)

0		

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bureau 42-R358.3. UTAI Approval expires 12-31-55.
r-Gr64990
Lease No.
Unit

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WA	TER SHUT-OFF
NOTICE OF INTENTION TO CHANGE			OOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WAT	TER SHUT-OFF	SUBSEQUENT REPORT OF ALT	ERING CASING
NOTICE OF INTENTION TO RE-DRILL	OR REPAIR WELL	SUBSEQUENT REPORT OF RE-	DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT O	R ACIDIZE	SUBSEQUENT REPORT OF ABA	NDONMENT
NOTICE OF INTENTION TO PULL OR	ALTER CASING.	SUPPLEMENTARY WITH THE	PACORDER SERVICE
NOTICE OF INTENTION TO ABANDON	WELL	frilling after shut-d	own-due to winter
(INDIC	ATE ABOVE BY CHECK MARK N	vature of report, notice, or ot	HER DATA)
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(Field)	(County or	Subdivision)	(State or Territory)
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STATE OF UTAH OIL & GAS CONSERVATION COMMISSION State Capitol Building Salt Lake City 14, Utah

Public Domain Lease No. U-4890

	SUNDRY NO	TICES AND	REPORTS O	N WELLS		
Notice of i	ntention To Abando	on Well X				
				July	22, 1957	•
Well No. 1	is located 18	880ft. from N lin	e and 1040 ft.	from E. line of se	c. 24.	
	SE-NE	T2N	R1W	USM		
(1/4 Sec	and Sec. No.)	(Twp.)	(Range)	(Meridian)		
i.	K.					
Wildcat	Ui	ntah		Utah		
(Field)	(Cou	inty or Subdivision	on)	(State of Territ	ory)	
was drilled drilled with hole. The h requested the also to place well, etc. with surface	of well is 1210 ft. with cable tools to rotary tools. It is note has been filled hat permission be a see a cement at the will be placed on a casing. It is impossed to the hole.	150 feet of 10 3 a depth of 450 fe hereby requested with very thick is allowed to fill the top of the casing 4 foot pipe embessible to get belo	that permission that permission totary mudbelow bottom of the A proper sign edded. No water we surface casin	feet to total depth in be granted to about the surface casing casing with a cem showing location, sands were encounts because cavings	well was andon this ag. It is ent plug and name of intered below s have complet	
CompanyAdress	Mervin J. Fulton P.O. Box 980 Tulare, Californi		Title Co	ert E. Covington nsulting Geologist ernal, Utah P.O.		·

CALDWELL AND COVINGTON OIL AND URANIUM PROPERTIES VERNAL, UTAH

ROBERT E. GOVINGTON

July 22, 1957

re: U.S.Oil & Gas Lease U-04890 Uintah Co., Utah

Cleone Feight, Secretary
Oil & Gas Conservation Commission
State of Utah
State Capitol Building
Salt Lke City, 14, Utah

Dear Sir:

We enclose in duplicate your Form OGCC-1, "Sundry Notices and Reports" on the Mervin J. Fulton & Associates, No.1 Whiterocks well regarding Intention to Abandon. We have received verbal approval on abandonment from Mr.Don Russell of the U.S.G.S already. This hole was drilled to a total depth of 1210 feet and filled with heavy mud up to the surface casing which was set at 150 feet. Since the hole has caved very badly below the surface pipe and we were unable to re-enter the same, and since we encountered no water sands below the casing, Mr. Russell has given us approval from the U.S.G.S. to spot cement plugs at the bottom and the top of the casing for abandonment. May we have your permission to do the same?

Also enclosed are two copies of the same form regarding intent to drill a new well. We would appreciate your approval on this hole. We are moving south 50 feet from the old hole since we were unable to make any progress with the No.1 Whiterocks well.

Thank you for your cooperation. May we hear from you in the near future? We would surely appreciate your prompt permission to proceed.

Very truly yours,

CALDWELL & COVINGTON

Robert E. Covington

Geologist

rec'dg
VIA AIRMAUL
Encl.

P?S?: Please send us about two dozen Sundry Notices as you can see we are out! Thanks.

Caldwell & Covington Vernel, Utah

Gentlemen:

This is to acknowledge receipt of your notice of intention to abandon Well No. Whiterocks 1, which is located 1880 feet from the north line and 1040 feet from the east line of Section 24, Township 2 North, Range 1 West, USM, Uintah County, Utch.

Please be advised that insofar as this office is concerned, approval to abandon said well is hereby granted.

Yours very truly,

OIL A GAS CONSERVATION COMMISSION

CLEON B. FRIGHT SECRETARY

CBFien

00: Don Russell, Dist. Eng. USGS, Federal Building Salt Lake City, Utah

> Mervin J. Fulton & Assoc. P. C. Box 980 Tulare, California

December 5, 1957

Mervin J. Fulton & Associates c/o Caldwell & Covington Vernal, Utah

Gentlemen:

This letter is to advise you that the well log for Well Mc. Whiterocks 1, located in Section 24, Township 2 North, Range 1 West, USM, Vintah County, Utah, has not as yet been filed with this office as required by our rules and regulations.

Please complete the enclosed Forms OGGG-3, Log of Oil or Gas Well, in duplicate, and forward them to this office as soon as possible.

Yours very bruly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT SECRETARY

OFF: on

Not In word

February 18, 1958 Caldwell & Covington P. O. Box 473 Vernal, Utah Re: Well No. Mervin J. Fulton & Associates Whiterooks 1, NW SE NE Sec. 2470 Thh 2 North, R. 1 West, USM, Uinteh County Gentlemen: Please complete the enclosed Forms CGCC-3, Log of Oil or Gas Well, in duplicate, for the above mentioned well, which was plugged and abandoned on or about August 1, 1957. The well log for said well was due 90 days after the date the well was abandoned, therefore, it would be greatly appreciated if you will file these forms as soon as possible. Yours very truly. OIL & GAS CONSERVATION COMMISSION CLEON B. FRIGHT SECRETARY CBF: on Encl.

24

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

State Capitol Building Salt Lake City 14, Utah

То	be	kent	Confidential	until _			_		
				(Not to	exceed 4	months	after	filing	date

LOG OF OIL OR GAS WELL

LOC	CATE WELL	_ CORRECTLY	•				* *		÷.
Operat	ing Comp	any Mervir	J. Fult	eA.s.no	ac. Addres	s P.O. Box 98	0, Tulare	, Cal	iforni a
Lease	or Tract: .	Utah-0489	l (Fede	ral)	Field	Wildcat	State	Uı	ah
						M . Co	v		
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,					SING RECO				
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				PLUG	S AND ADAF	TERS			

	•					h set
Adapters-	-Material		Siz	e		
*			SHOOTI	NG RECORD		
Size	Shell used	Explosive use	ed Qua	ntity Date	Depth shot	Depth cleaned out
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						feet to fe
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_	% water;					
				. Gallons gaso	line per 1,000 cu	. ft. of gas
_	pressure, lbs. p					
20002	F	1		LOYEES		
	Darwin Car	npbell,	Driller			, Dril
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450'	1210	1.3.	<b>76</b> 0	Navajo Fo	ormation	
	Ï	<u> </u>				
		7				
	4					

NW LESE NEL SECTION 24, TOWNSHIP 2 NOW TH. PANGE I WOOT. E1. 7330 D.F.

R. E. Covington, Well Geologist

Well began in surface boulders and same entered the Duchense River formation at 135 feet:

Samples begin at 135 feet: (Casing (10 3/4) set at 150 ft.)

- 135- 140 Shale, red sandy, bentonitic.
- 140- 145 As above.
- 145- 150 As above with some gray-green bentonite with boitite.
- 150- 155 As above with increased in bentonite.
- 155- 160 Bentonite, gray-green.
- 160- 165 As above.
- 165- 170 As a bove with sandstone, coarse grain, increased.
- 170- 175 As above, with some coarse, brown, quartzitic.
- 175- 100 As above.
- 180- 185 As above with some red siltstone.
- 185- 190 Siltstone, red and gray, very bentonitic.
- 190- 195 Siltstone, red, gray, green, bentonitic, shaly.
- 195- 200 As above with biotite mica.
- 200- 205 Sandstone, fine to coorse, brown, silty and dirty, with some bentonite shale and shaly siltstone.

## POOR GOPY

#### PAGE TWO

- 205- 210 Bentonite, gray-green, with biotite flakes.
- 210- 215 Bentonite, white, as above
- 215- 220 As above, with increased in sandstone, fine grain, dirty and silty.
- 220- 225 As above.
- 225- 230 Siltstone red-green, with some mottled shale, becoming sandy in part.
- 230- 235 Sandstone, red and green shaly, bentonitic with some large, rounded, frosted quartz grains, 1-3 millimeter. Trace brown, dense, crystalline limestone.
- 235- 240 Siltstone, red bentonitic, with some sandstone, as above. Asphalt pellets, common, trace calcite, trace orange chert.
- 240- 245 Siltstone, as above 50%, and shale, very bontonitic, waxy, emerald green, with biotite flakes.
- 245- 250 Conglomerate, with 3-5 millimeter rounded to subrounded quartz grains, with limestone, white, chalky and limestone, brown, densely crystaline.
- 250- 255 Sandstone, medium to coarse grain, with some large quartz pebbles, wet, clean.
- 255- 260 Sandstone, as above. Grains are subrounded, frosted, very friable.
- 260- 265 Conglomerate with some very fine quartz grains, and quartz pebbles, 3-5 mellimeter.
- 265- 270 Sandstone, medium to coarse grain, very friable.
- 270- 275 Sandstone, as above. Looks wet.
- 275- 235 As above, with sendstone, quartzitic, red-brown, calcite, common., Orange chert, common.
- 205- 290 Sandstone brown, fine grain limey, with some white, dense limestone, and some sandstone brown, friable, fine to corse, rounded to subrounded, with some milky quartz and orange chert.

#### PAGE THREE

- 290- 295 Sandstone, with some limestone, as above. Trace shale, green and red.
- 295- 300 Limestone, purple, white, sucrosic, with some sandstone as above.
- 300- 305 Shale, red, with some sandstone, bentonitic.
- 305- 310 Limes one, purple, white, gray, dense to sandy and sands one, brown to tan, medium to coarse, with tan chert and frosted white quartz grains.
- 310- 315 Limestone, gray, dense, lithographic and limestone, purple and white, sandy (50%). Sandstone, medium grain, reddish-tan, colcite, hard, tight. Some chert, gray and white.
- 315- 320 As above.
- 330 Sandstone, medium to fine grain, reddish-tan, hard, tight, calcite, some chert, green and white.
- 330- 360 Sandstone, medium to fine grain, reddish-tan calcite, some chert and shales.
- 360- 365 Siltstone, reddish-brown, sandy.
- 365- 370 Limestone, white, finely crystaline to sucrosic, with some sandstone, coarse grain. Chert, gray, dense, common.
- 370- 375 Conglomerate, silty, with quartz grains, 1-2 millimeter rounded, frosted, with some clay stone, red and siltstone, red.
- 375- 300 Limestone, dark gray, dense and limestone, white, sucrosic.
- 380- 385 Limestone, as above, 50% and shale, red-green bentonitic.
- 385- 395 Limestone, as above.
- 395- 405 Shale, red and green, with some gray-green bentonite.
- 405- 415 Sandstone, buff, quartzitic, some calcite, fine grain, tight, sharp with some dark gray, dense, limestone.
- 415- 420 Sandstone, red-brown, clayey, coarse grain, colcite, with some fine grain sandstone.
- 420- 430 Sandstone, fine to coarse grain, red-brown, with some silty, fine to medium grain sandstone.

#### PAGE FOUR

430-	450	Sandstone, green-white, fine to coarse grain, frosted,
		with some dark gray and pink sub-rounded to rounded
1		grains, calcareous.

- 450- 455 Sandstone, white medium grain, frosted to clear, sub-rounded to rounded, calcareous, salt taste?

  (Moving out cable tool rig, moving in rotary.)
- 455- 460 Sandstone, white, medium to coarse grain, calcareous, with heavy oil staining, brown flaores sence, excellent, cut, excellent odor, cut is yellow under ultra-violet light. Sandstone is 30% stained, with tar-like oil.
- Limestone, gray-green, dolomitic, with tar staining. Some limestone, brown to buff and some sandstone, as above. Staining up to 25% of sample.
- 470- 480 Sandstone, white, fine grain, well sorted, friable, with some coarse grain sandstone. Sandstone has spotty tar-oil staining with cut and fluorescence and excellent order, as above. Trace sandstone, fine grain, red-brown to tan, hard with interlocked grains, grading into sandy limestone. The coarse quartz grains are pitted and frosted and rounded.
- 480- 490 Sandstone, fine grain, gray, with silty to shaly, with tar saturation. Sandstone is highly bentonitic.
- 490- 500 Shale, gray, bentonitic, sandy, with some fine grain sandstone and with small amount tar saturation. Spotty.
- 500- 510 Sandstone, green, medium to coarse grain, hard, tight and limestone, gray, finely crystaline with some sandstone, medium fine grain, with white binder, with spotty tar saturation, tar globules, common. Some claystone, red, with biotite and claystone, green.
- 510- 520 Sandstone, fine grain, well saturated with black, heavy oil. Excellent odor. Excellent cut. Some sandstone coarse grain, hard, tight. Trace sandstone, white, medium grain, tight, not saturated or spottily saturated. Some sandstone, medium grain, ealcareous, grading into soft, white, sandy limestone.
- 520- 530 Sandstone, gre nish-white, fine grain, soft, well sorted. Very calcareous, spottily saturated. Good odor. Trace pyrite.

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- 530- 540 Limestone, medium gray, finely crystaline, sharp and sandstone, fine grain, greenish-white, with saturation varying from 0 to 100%. Trace limestone, tan, sandy and limestone, gray, crypto-crystaline. Pyrite very common. Trace mudstone, red. Trace claystone, light greenish-gray, sandy, with large quartz grains.
- 564 Core #1. Cored 20.0 feet. Recovered 20.0 feet. sandstone, medium grain, friable, with ter saturation. Dips? are 72 degrees. Fracture planes are 45 degrees. Fracture planes are well saturated, with fractures as above. Good odor and good cut in acetone. Some tarry oil in fractures and few white spotty sandstone streaks slightly saturated. Bottom of core is more clayey, less evenly saturated.
- 577- 590 Sandstone, fine to medium grain, well rounded, frosted grains, with tar saturation amounting to 75%. Limestone, gray-green, sandy, rare (caving).
- 590- 610 Sandstone, as above, with saturation increasing to 90%.
- 610- 630 Sandstone, sabove, 50%, limestone, buff, finely crystaline, and sandstone, green calcareous, with pyrite, rare, grading into limestone, green silty with some medium coarse sands one grains. A few very coarse (2-3 millimeter) sub-rounded, semi-opaque, quartz crystals. Some mudstone, buff and green.
- 630- 640 (Cavings 60%, due to trip), Limestone, tan, finely crystaline, gray, dense and gray with some green mottling, with some brown sandy limestone and limey sandstone. Sandstone, green, limey, very pyritic, with some tar staining, fine to medium grain. Some sandstone, white with tar staining. Pyrite, very common. Asphalt saturation amounts to 25%. Trace sandstone, white, calcareous, pyritic, with white, lime binder. Asphaltic sandstone forms asphalt pellets. Tight, hard.

640- 650 Sandstone, white, calcareous, fine to coarse grain, with white limestone binder, with tar saturation amounting to 20%. Some limestone, brown, granular and limestone gray-white, colitic fossiliferous.

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- (Comes)

  Trace limestone, brown, sandy. Tar saturation is interbedded, giving laminated appearance. Pyrite, common. Mudstone, pole red, rare (Cavings?). Limestone, pale buff to green-gray, clayey to silty, common. Trace limestone, dense, gray-white, chalky.
- 650- 660 Sandstone, fine grain, white, with terry saturation amounting to 80%.
- 660- 670 Sandstone, fine to coarse grain, with white calybinder. Tar saturation amounts to 25%. Some claystone, gray.
- 670- 680 Sandstone, fine grain, with white clay binder, bentonitic, balls up, with 10% tar saturation.
- 680- 690 Sandstone, as above with some sandstone, fine grain, with green clay binder. Trace limestone, white asphaltic. Sandstone is slightly pyritic. Trace siltstone, with black grains, very calcareous. Bentonitic shale, gray, common.
- 690- 704 Sandstone, as above.
- 705- 713 Core #3 Recovered 8.0 feet. Sandstone, fine grain, hard, tight, calcareous, with some interbedded tarry asphalt, highly cross-bedded, with dips averaging 62 degrees. Top of core is fairly well saturated. Bottom of core is lean. Some white carry galls.

#### (Well shut down awaiting orders)

- 713- 720 Sandstone, fine grain, with tar saturation, good, 75% saturated. Siltstone, red, very calcareous, and claystone, gray and buff, waxy, calcareous, common. Trace limestone, white, finely sucrosic. Trace sandstone, brownish-red, fine grain.
- 720- 730 Sandstone, fine grain to very coarse, very friable, with some shale, green and grey, soft, bentonitic. Sandstone is saturated 25% with brown to black tarry oil. Trace gypsum, white. Trace limestone, brown, hard, bery finely crystalline. Trace apple-green shale.

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- 730- 740 Sandstone, fine to coarse grain, very friable, silty, grains are frosted, rounded to sug-rounded, with some pale blue bentonite, with bibtite flecks in bentonite. Sandstone is 20% saturated.
- 740- 750 Sandstone, white, fine grain, with white clay and white limestone, and limestone, white, bery finely crystalline and tan, sandy, with some light grey, finely sucrosic limestone, sharp. Spotty tar saturated.
- 750- 760 Sandstone, as above, with increased in pyrite and white sandstone. Bentonite, blue, as above, very common.
- 760- 770 Sandstone, white, slightly calcareous, hard, tight, slightly pyritic, with some grey bentonitic sandstone with biotite. Pale blue bentonite, common.
- 770- 780 Claystone, tan and brown, bentonitic, with some pale blue and green bentonite! Limestone, tan and brown, very finely crystalline, dense. Some sandstone, white, calcareous, with black flecks. Trace of sindstone, medium grain, with white lime cement and interstitial tarry asphalt.
- 780- 790 Claystone, as above, with some shale, red, slightly calcareous. Trace pyrite.
- 790- 900 No sample
- Sandstone, white, fine to coarse grain, with sub-rounded to rounded, frosted grains with tar pellets and interstitial ter, common, with few soft tarry splotches. Tarry asphalt does not coat grains of sand. Siltstone, flesh-pink, to common. Some sandstone, white, as above.
- 810- 820 Sandstone, as above, with increased in tar saturation.
  Siltstone, flesh-colored pink, common,. Some white sandstone, as above.
- 820- 830 Sandstone, as above, with some sandstone, coarse grain, with orange grains, rounded with white lime binder and pieces of green shale. Trace chert, milky-white, sharp.
- 830- 840 Siltstone, pale red, bentonitic, and siltstone, tan, shaly, with some sandstone, as above. Trace limestone, milky-white, vuggy, hard. Sandstone, fine to coarse grain with interstitial tar amounts to 10% of sample.

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#### PAGE BYTHT

- 8402 850 Bentonite, flesh-colored and pale green, biotitic, calcareous, with some sandstone, fine to coarse grain, with white cement and intersitial tar amounting to 25% total saturation. Some pale red siltstone.
- 850- 890 Bentonite, as above, with increase in asphaltic sandstone to 50% of sample. Tar does not cost grains.
- go- 915 CORE NO. 4: Cored interval 890-915, recovered 4.0':
  recovered 1.0' of sandstone, fine to coarse grain, with
  lean tarry asphalt saturation, fair odor; recovered
  1.0' mudstone, soft, bentonitic, red (probably lost
  ll.0' of mudstone, red): recovered 2.0' in bottom of
  core, sandstone, fine grain, with lean tarry asphalt
  saturation, poor to fair odor.
- 915- 920 Sandstone, fine grain, with interstitial tar and with some free tar. Some lentonite, pale blue, with biotite; some tan and grey bentonite. Siltstone, red, sandy, rare.
- 920- 930 Siltstone, brownish-red, and bentomite, as above.

  Sandstone, as above, decreases to 10%. Trace limestone, crystalline, white.
- 930- 940 As above, with some free, tarry oil.
- 950- 960 Sandstone, fine grain, tarry, with white lime binder, well saturated with intersititial tar; some tar costs the grains. Limestone, white, finely crystalline, rare.

#### Top Carmel ?

- 960- 970 Limestone, white, sandy, with some red siltstone.

  Trace limestone, light and dark grey, cherty to lithographic. Pyrite, common. Bentonite, pale blue, common. Trace reddish-brown siltstone.
- .970- 980 Siltstone, brown and red, with some Shale, blue, bentonitic with biotite.
- 980- 990 Siltstone, brown and red, as above. Limestone, red, sucrosic, common to very connon. Trace shale, olive-green, wax;.
- 990- 1000 Siltstone, red, and shale, green waxy, with some limestone, white sand. Some sandstone, fine to coarse grain, with white lime binder and flecks of intersititial tar. Pyrite, common. Trace calcite.

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#### PAGE NINE

- 100 1010 Siltstone, red, with some blue bentonite.
- 1010- 1020 Sandstone, fine grain, with white lime cement and interstital tar. Siltstone, red, biotitic, bentonitic, common. Some black, greasy tar. Pyrite, common.
- 1020- 1030 Siltstone, as above, with decrease in sandstone. Trace white bentonite.
- 1030- 1040 Siltstone, as above, with limestone, grey, dense, sharp, common.
- 1040- 1065 No sample.
- Core No. 5: Cored 10.0'. Recovered 0.5', sandstone very fine grain to fine grain, well sorted, with frosted, sub-rounded grains with white clay binder, nonpealcareous. Piece of core, 1 inch thick donsisting of white sandstone, as above, with no hard tar flecks. Rest of core donsists of sindstone, as above, varying from a salt and pepper appearance to black, depending on amount of tar. Dip of beds seems to be vertical to 70 degrees. (Cross bedding?)

  Some white clay: Sandstone is very friable. Clay may represent gouge.
- 1075- 1085 Bentonite, whitish-grey, sandy, with some siltstone, red. Trace limestone, buff, shaly.
- 1085- 1093 Sandstone, coarse grain, well sorted, with white clay binder, pyritic. Trace limestone, tan-white finely crystalline, with some pyrite finely sucrosic limestone. Some siltstone, red and grey.
- 1093- 1100 Bentonite, white, sandy, with trace tar in bentonitic sandstone.
- 1100- 1110 Sandstone, white, medium grain, with some tar, interstitial, bentonitic.
- 1110- 1120 Bentonite, white, sandy, clayey with trace red siltstone.
- Carrel 1120- 1130 Limestone grey, dense, pinkish brown, finely sucrosic and bentonitic, green and grey, with biotite mical Some red siltstone.
  - 1130- 1140 Siltstone, grey, re, bentonitic, sandy

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- 1140- 1150 Limestone, grey, finely crystalline and limestone, pyritic, finely sucrosic, with some red and grey siltstone. Some bentonite, green with boitite.
- 1150- 1160 Siltstone, red, with some limestone, as above. Pyrite, rare bentonite pale blue, micaceous.
- 1160- 1170 Limestone, grey, finely crystalline and limestone pinkishred and sandy, grey. Chert, grey, sharp, common. Pyrite,
  common. Some orange chert, sharp. Siltstone, red, Common.
  Some free tar.
- 1170- 1180 Limestone grey, dense and limestone, pinkish-red sandy.

  Trace pale-green shale.
- 1180- 1190 Limestone buff, crystalline sucrosic, sharp, hard with some grey and white limestone. Bentonite, pale blue, biotitic.
- 1190- 1200 Limestone, buff, sandy and white chalky with some bentonitic siltstone.
- 1200- 1210 Bentonite, grain, grey and pink, with some limestome, brown, sandy to dense and trace sandstone, white calcareous, fine to coarse grain, bitanic, silty.

  Trace dolomitic, black.
- 7 1220- 1230 Sandstone, fine to coarse grain, calvareous, silty, bery friable, well rounded grains.